

**SEARCH REQUEST FORM****Scientific and Technical Information Center**

Requester's Full Name: TESFALDET BOGUE Examiner #: 67293 Date: 7/3/01  
 Art Unit: 2614 Phone Number 305 4735 Serial Number: 09/648/153  
 Mail Box and Bldg/Room Location: 3014 Results Format Preferred (circle): PAPER DISK E-MAIL  
PK2

**If more than one search is submitted, please prioritize searches in order of need.**

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: LIQUID CRYSTAL Display Unit  
 Inventors (please provide full names): JUN KOYAMA

Earliest Priority Filing Date: \_\_\_\_\_

*\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

5 799746

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**STAFF USE ONLY****Type of Search****Vendors and cost where applicable**

|                                       |  |   |
|---------------------------------------|--|---|
| Searcher: <u>M. Campbell</u>          | NA Sequence (#) _____                          | STN _____   |
| Searcher Phone #: <u>6 0255</u>       | AA Sequence (#) _____                          | Dialog <input checked="" type="checkbox"/>        |
| Searcher Location: <u>KIC 1600</u>    | Structure (#) _____                            | Questel/Orbit <input checked="" type="checkbox"/> |
| Date Searcher Picked Up: <u>7/3</u>   | Bibliographic _____                            | Dr.Link _____                                     |
| Date Completed: <u>7/3</u>            | Litigation <input checked="" type="checkbox"/> | Lexis/Nexis <input checked="" type="checkbox"/>   |
| Searcher Prep & Review Time: <u>2</u> | Fulltext _____                                 | Sequence Systems _____                            |
| Clerical Prep Time: <u>1</u>          | Patent Family _____                            | WWW/Internet _____                                |
| <u>0</u>                              | Other _____                                    | Other (specify) _____                             |

1/9/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat  
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12581311

Basic Patent (No,Kind,Date): JP 7199156 A2 19950804 <No. of Patents: 003>

PATENT FAMILY:

JAPAN (JP)

Patent (No,Kind,Date): JP 7199156 A2 19950804  
LIQUID CRYSTAL DISPLAY DEVICE (English)  
Patent Assignee: SEMICONDUCTOR ENERGY LAB  
Author (Inventor): KOYAMA JUN  
Priority (No,Kind,Date): JP 93354091 A 19931227  
Applic (No,Kind,Date): JP 93354091 A 19931227  
IPC: \* G02F-001/133; G09G-003/36  
Language of Document: Japanese  
Patent (No,Kind,Date): JP 7199157 A2 19950804  
LIQUID CRYSTAL DISPLAY DEVICE (English)  
Patent Assignee: SEMICONDUCTOR ENERGY LAB  
Author (Inventor): KOYAMA JUN  
Priority (No,Kind,Date): JP 93354092 A 19931227  
Applic (No,Kind,Date): JP 93354092 A 19931227  
IPC: \* G02F-001/133; G09G-003/36  
Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5798746 A 19980825  
LIQUID CRYSTAL DISPLAY DEVICE (English)  
Patent Assignee: SEMICONDUCTOR ENERGY LAB (JP)  
Author (Inventor): KOYAMA JUN (JP)  
Priority (No,Kind,Date): JP 93354091 A 19931227; JP 93354092 A 19931227  
Applic (No,Kind,Date): US 362881 A 19941223  
National Class: \* 345098000; 345092000; 345089000  
IPC: \* G09G-003/36; G02F-001/13  
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

|            |   |          |   |                                   |
|------------|---|----------|---|-----------------------------------|
| US 5798746 | P | 19931227 | US AA                                     | PRIORITY (PATENT)                 |
|            |   |          | JP 93354091 A                             | 19931227                          |
| US 5798746 | P | 19931227 | US AA                                     | PRIORITY (PATENT)                 |
|            |   |          | JP 93354092 A                             | 19931227                          |
| US 5798746 | P | 19941223 | US AE                                     | APPLICATION DATA (PATENT)         |
|            |   |          | (APPL. DATA (PATENT))                     |                                   |
|            |   |          | US 362881 A                               | 19941223                          |
| US 5798746 | P | 19941223 | US AS02                                   | ASSIGNMENT OF ASSIGNOR'S INTEREST |
|            |   |          | SEMICONDUCTOR ENERGY LABORATORY CO., LTD. |                                   |
|            |   |          | 1-4-23, NISHIHASHIMOTO, SAGAMIHARA-SHI ;  |                                   |
|            |   |          | KOYAMA, JUN : 19941221                    |                                   |
| US 5798746 | P | 19980825 | US A                                      | PATENT                            |
| US 5798746 | P | 20001024 | US RF                                     | REISSUE APPLICATION FILED         |
|            |   |          | (REISSUE APPL. FILED)                     |                                   |
|            |   |          | 20000825                                  |                                   |

LEVEL 1 OF 1 PATENT

5,798,746

<=2> GET 1st DRAWING SHEET OF 8

Aug. 25, 1998

Liquid crystal display device

REISSUE: Reissue Application filed Aug. 25, 2000 (O.G. Oct. 24, 2000) Ex. Gp.:  
2775; Re. S.N. 08/362,881

CORE TERMS: pixel, voltage, display, electrode, memory circuit, matrix,  
digital, liquid crystal, transistor, thin film...

**EXIS-NEXIS**  
**Library: PATENT**  
**File: ALL**

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5798746 OR 5,798,746

**LEXIS-NEXIS**  
**Library: NEWS**  
**File: CURNWS**

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For further explanation, press the H key (for HELP) and then the ENTER key.

1/3 LGST (1/1) - (C) LEGSTAT  
PN - US 5798746 [US5798746]  
AP - US 362881/94 19941223 [1994US-0362881]  
DT - US-P  
ACT - 19941223 US/AE-A  
APPLICATION DATA (PATENT)  
{US 362881/94 19941223 [1994US-0362881]}  
- 19941223 US/AS02  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
SEMICONDUCTOR ENERGY LABORATORY CO., LTD. 1-4-23, NISHIHASHIMOTO,  
SAGAMIHARA-SHI \* KOYAMA, JUN : 19941221  
- 19980825 US/A  
PATENT  
- 20001024 US/RF  
REISSUE APPLICATION FILED  
20000825  
UP - 2000-43

2/3 CRXX (1/1) - (C) CLAIMS/RRX  
AN - 3029776  
PN - 5,798,746 A 19980825 [US5798746]  
PA - Semiconductor Energy Laboratory Co Ltd JP  
PT - E (Electrical)  
ACT - 20000825 REISSUE REQUESTED  
Issue Date of O.G.: 20001024  
Reissue Request Number: 08/362881  
Examination Group responsible for Reissue process: 2775  
  
UP - 2000-43  
UACT- 2000-10-24

3/3 PAST (1/1) - (C) PAST  
AN - 200043-001361  
PN - 5798746 A [US5798746]  
DT - A (UTILITY)  
OG - 2000-10-24  
CO - REA  
ACT - REISSUE APPLICATION FILED  
SH - REISSUE APPLICATION FILED